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☐ 1. Document ID: US 6727232 B2

Using default format because multiple data bases are involved.

L2: Entry 1 of 28 File: USPT Apr 27, 2004

US-PAT-NO: 6727232
DOCUMENT-IDENTIFIER: US 6727232 B2

TITLE: Nucleoside peptide antibiotics of AA-896

DATE-ISSUED: April 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lin; Yang-I	Tappan	NY		
Li; Zhong	Congers	NY		
Francisco; Gerardo DelaCruz	Orangeburg	NY		
McDonald; Leonard Alexander	Mountainside	NJ		

US-CL-CURRENT: 514/50; 514/43, 514/49, 536/22.1, 536/28.1, 536/28.4, 536/28.53, 536/55.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 2. Document ID: US 6713295 B2

L2: Entry 2 of 28 File: USPT Mar 30, 2004

US-PAT-NO: 6713295
DOCUMENT-IDENTIFIER: US 6713295 B2

TITLE: Isolated human UDP-glycosyltransferase proteins

DATE-ISSUED: March 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Webster; Marion	San Francisco	CA		
Wei; Ming-Hui	Germantown	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/200; 435/183, 435/193, 530/350

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the drug-metabolizing enzyme peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the drug-metabolizing enzyme peptides, and methods of identifying modulators of the drug-metabolizing enzyme peptides.

8 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw D

☐ 3. Document ID: US 6583275 B1

L2: Entry 3 of 28 File: USPT Jun 24, 2003

US-PAT-NO: 6583275
DOCUMENT-IDENTIFIER: US 6583275 B1

TITLE: Nucleic acid sequences and expression system relating to Enterococcus faecium for diagnostics and therapeutics

DATE-ISSUED: June 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doucette-Stamm; Lynn A.	Framingham	MA		
Bush; David	Somerville	MA		

US-CL-CURRENT: 536/23.1; 435/243, 435/320.1, 435/325, 435/6, 536/24.3, 536/24.32

ABSTRACT:

The invention provides isolated polypeptide and nucleic acid sequences derived Enterococcus faecium that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

34 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw D

☐ 4. Document ID: US 6551790 B2

L2: Entry 4 of 28 File: USPT Apr 22, 2003

US-PAT-NO: 6551790
DOCUMENT-IDENTIFIER: US 6551790 B2

TITLE: Process for glucuronidation screening

DATE-ISSUED: April 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Trubetskoy; Olga	Middleton	WI		
Lowery; Robert G.	Brooklyn	WI		

US-CL-CURRENT: 435/15; 435/18, 435/968

ABSTRACT:

A fluorescence polarization process used to identify activity of conjugative enzymes involved in xenobiotic transformations, such as glucuronosyltransferases is provided.

8 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw. De

☐ 5. Document ID: US 6534278 B1

L2: Entry 5 of 28 File: USPT Mar 18, 2003

US-PAT-NO: 6534278
DOCUMENT-IDENTIFIER: US 6534278 B1
**** See image for Certificate of Correction ****

TITLE: Screening for antibiotics

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rothstein; David M.	Lexington	MA		

US-CL-CURRENT: 435/7.2; 435/18, 435/183, 435/19, 435/24, 435/243, 435/32, 435/471, 435/6, 435/69.1, 435/69.8, 435/7.1, 435/7.32, 435/7.4, 536/24.3, 536/24.32

ABSTRACT:

Assays for the detection of .beta.-lactamase induction can be used to identify compounds that kill bacteria (i.e., bacteriocidal activity) or inhibit bacterial growth (i.e., bacteriostatic activity). The .beta.-lactamase can be encoded, for

example, by a .beta.-lactamase gene carried by a bacterial host. The identified compounds can be use to treat bacterial infections in organisms such as mammals. The new methods can be used, for example, for high throughput screening of libraries of potential inhibitors.

25 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 6. Document ID: US 6416988 B1

L2: Entry 6 of 28 File: USPT Jul 9, 2002

US-PAT-NO: 6416988
DOCUMENT-IDENTIFIER: US 6416988 B1

TITLE: Beta-1,3-galactosyltransferase homologs

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conklin; Darrell C.	Seattle	WA		
Yamamoto; Gayle	Seattle	WA		
Jaspers; Stephen R.	Edmonds	WA		
Gao; Zeren	Redmond	WA		

US-CL-CURRENT: 435/193; 435/252.3, 435/320.1, 435/325, 536/23.2

ABSTRACT:

The present invention relates to polynucleotide and polypeptide molecules for znssp2, a novel member of the galactosyltransferase family. The polypeptides, and polynucleotides encoding them, are cell-cell interaction and glycoprotein synthesis modulating and may be used for delivery and therapeutics. The present invention also includes antibodies to the znssp2 polypeptides.

7 Claims, 0 Drawing figures
Exemplary Claim Number: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 7. Document ID: US 6383789 B1

L2: Entry 7 of 28 File: USPT May 7, 2002

US-PAT-NO: 6383789
DOCUMENT-IDENTIFIER: US 6383789 B1

TITLE: Isolated human UDP-glycosyltransferase, nucleic acid molecules encoding human UDP-glycosyltransferase, and uses thereof

DATE-ISSUED: May 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Webster; Marion	San Francisco	CA		
Wei; Ming-Hui	Germantown	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/193; 435/183, 435/252.3, 435/320.1, 536/23.2

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the drug-metabolizing enzyme peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the drug-metabolizing enzyme peptides, and methods of identifying modulators of the drug-metabolizing enzyme peptides.

11 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

☐ 8. Document ID: US 6361985 B1

L2: Entry 8 of 28 File: USPT Mar 26, 2002

US-PAT-NO: 6361985
DOCUMENT-IDENTIFIER: US 6361985 B1

TITLE: Beta-1,3-galactosyltransferase homolog, ZNSSP6

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conklin; Darrell C.	Seattle	WA		
Yamamoto; Gayle	Seattle	WA		
Gao; Zeren	Redmond	WA		
Jaspers; Stephen R.	Edmonds	WA		

US-CL-CURRENT: 435/193; 435/183, 435/253.3, 435/254.11, 435/320.1, 435/325, 435/419, 536/23.1, 536/23.2

ABSTRACT:

The present invention relates to polynucleotide and polypeptide molecules for znssp6, a novel member of the galactosyltransferase family. The polypeptides, and polynucleotides encoding them, are cell-cell interaction and glycoprotein synthesis modulating and may be used for delivery and therapeutics. The present invention also includes antibodies to the znssp6 polypeptides.

13 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 9. Document ID: US 6356845 B1

L2: Entry 9 of 28 File: USPT Mar 12, 2002

US-PAT-NO: 6356845
DOCUMENT-IDENTIFIER: US 6356845 B1

TITLE: Crystallization and structure determination of Staphylococcus aureus UDP-N-acetylenolpyruvylglucosamine reductase (S. aureus MurB)

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Benson; Timothy E.	Kalamazoo	MI		
Harris; Melissa S.	Marshall	MI		

US-CL-CURRENT: 702/19; 435/183, 702/27

ABSTRACT:

The substrate free form of Staphylococcus aureus UDP-N-acetylenolpyruvylglucosamine reductase (S. aureus MurB) has been crystallized, and the three dimensional x-ray crystal structure has been solved to 2.3 .ANG. resolution. The x-ray crystal structure is useful for solving the structure of other molecules or molecular complexes, and designing inhibitors of S. aureus MurB.

7 Claims, 628 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 625

☐ 10. Document ID: US 6284694 B1

L2: Entry 10 of 28 File: USPT Sep 4, 2001

US-PAT-NO: 6284694
DOCUMENT-IDENTIFIER: US 6284694 B1

TITLE: Moulded spherical ceramic body, production process and use

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moeltgen; Paul	Laufenburg			DE
Wilhelm; Pirmin	Bad Sackingen			DE
Luette; Martin	Murg			DE

US-CL-CURRENT: 501/127; 264/653, 264/662, 423/625, 423/628, 51/293

ABSTRACT:

The present invention concerns a moulded microcrystalline spherical Al.sub.2 O.sub.3 - sintered body, process for its production as well as use.

17 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 11. Document ID: US 6251647 B1

L2: Entry 11 of 28 File: USPT Jun 26, 2001

US-PAT-NO: 6251647
DOCUMENT-IDENTIFIER: US 6251647 B1

TITLE: Auxiliary genes and proteins of methicillin resistant bacteria and antagonists thereof

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
de Lencastre; Herminia	New York	NY		
Tomasz; Alexander	New York	NY		

US-CL-CURRENT: 435/193; 435/252.1, 435/252.33, 435/320.1, 435/471, 536/23.1

ABSTRACT:

The present invention is directed to the identification of mutant strains of methicillin resistant bacteria, in particular methicillin resistant Staphylococcus aureus, to identify the characteristics of such bacteria and develop drugs that can reverse, inhibit, or reduce bacterial resistance to beta lactam antibiotics, e.g., methicillin. The invention particularly relates to identification of a novel mutant strain of methicillin resistant S. aureus that manifests a unique phenotype. Accordingly, the invention provides for methods of treatment and corresponding pharmaceutical compositions for treating bacterial, particularly staphylococcal, infections.

13 Claims, 34 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 26

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. D

☐ 12. Document ID: US 6235278 B1

L2: Entry 12 of 28 File: USPT May 22, 2001

US-PAT-NO: 6235278
DOCUMENT-IDENTIFIER: US 6235278 B1
**** See image for Certificate of Correction ****

TITLE: Biological insect control agents expressing insect-specific toxin genes, methods and compositions

DATE-ISSUED: May 22, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; Lois K.	Athens	GA		
Lu; Albert	Newark	DE		
Black; Bruce Christian	Yardley	PA		
Dierks; Peter Michael	Yardley	PA		

US-CL-CURRENT: 424/93.2; 424/93.6, 435/235.1, 435/320.1, 435/455, 435/456, 435/69.1, 536/23.1, 536/23.4, 536/23.5, 536/24.1

ABSTRACT:

Provided herein are genetically engineered baculoviruses which express insect-specific toxins, preferably paralytic neurotoxins, under the regulatory control of strong promoters expressed early after infection and in a wide variety of insect cells. Particularly preferred insect-specific paralytic neurotoxins are those of insect-predacious mites, including Pyemotes. The genetically engineered baculoviruses of the present invention are improved over prior art viruses in that they produce efficacious insect-toxic levels of the neurotoxin at earlier times after infection, particularly in comparison to baculoviruses in which the toxin is expressed under the control of a polyhedrin or granulin promoter. Insect-toxic compositions are also provided and methods of insect control using these compositions are described.

27 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. D

☐ 13. Document ID: US 6156309 A

L2: Entry 13 of 28 File: USPT Dec 5, 2000

US-PAT-NO: 6156309
DOCUMENT-IDENTIFIER: US 6156309 A
**** See image for Certificate of Correction ****

TITLE: Insecticidal compositions and methods

DATE-ISSUED: December 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; Lois K.	Athens	GA		
Black; Bruce C.	Yardley	PA		
Dierks; Peter M.	Yardley	PA		
Fleming; Nancy C.	Plainsboro	NJ		

US-CL-CURRENT: 424/93.7; 424/405, 435/320.1, 435/468, 435/6, 536/23.1

ABSTRACT:

Insect viruses capable of killing at least one target insect pest quicker than previously described viruses and methods for conferring that phenotype of faster killing are provided. Further improvement in the speed of killing is obtained when the virus of this invention also contains a nonfunctional egt gene to reduce feeding by the infected larvae, inhibit growth and further mediate the earlier death of the infected insect and/or it also contains and expresses a DNA sequence encoding an insect-specific toxin. The faster killing phenotype is achieved by inactivating an ORF 603 of AcMNPV or an ORF 603 homolog of a different species of baculovirus. Improved insecticidal compositions and improved methods of controlling insects are also included within the scope of this invention.

5 Claims, 18 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

☐ 14. Document ID: US 6153381 A

L2: Entry 14 of 28 File: USPT Nov 28, 2000

US-PAT-NO: 6153381
DOCUMENT-IDENTIFIER: US 6153381 A

TITLE: Screening for antibiotics

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rothstein; David M.	Lexington	MA		

US-CL-CURRENT: 435/6; 435/18, 435/183, 435/19, 435/24, 435/243, 435/32, 435/69.1, 435/69.8, 435/7.1, 435/7.32, 435/7.4, 536/24.3, 536/24.32

ABSTRACT:

Assays for the detection of .beta.-lactamase induction can be used to identify compounds that kill bacteria (i.e., bacteriocidal activity) or inhibit bacterial growth (i.e., bacteriostatic activity). The .beta.-lactamase can be encoded, for example, by a .beta.-lactamase gene carried by a bacterial host. The identified compounds can be use to treat bacterial infections in organisms such as mammals. The new methods can be used, for example, for high throughput screening of libraries of potential inhibitors.

20 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

☐ 15. Document ID: US 5894016 A

L2: Entry 15 of 28 File: USPT Apr 13, 1999

US-PAT-NO: 5894016
DOCUMENT-IDENTIFIER: US 5894016 A

TITLE: Method of preparing metal disulfides and the further processing thereof to form dimetal trisulfides

DATE-ISSUED: April 13, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fister; Dietmar	Murg			DE

US-CL-CURRENT: 423/511; 423/561.1, 423/89

ABSTRACT:

Method of preparing metal disulfides of the general formula

(Sn.sub.x Me.sub.1-x)S.sub.2,

wherein

Me represents one or more of the elements Ti, Mo, Fe, Cr, Ta, Nb, Mn, Bi, W and Cu, and

x can have values between 0.5 and 1,

by mixing Sn, alone or with Me and/or Me sulfides, with a superstoichiometric quantity of S and reacting the same together, in the presence of halide compounds, in an exothermic reaction in an inert atmosphere

and the further processing the disulfide product thereof to form dimetal trisulfides.

14 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 16. Document ID: US 5858353 A

L2: Entry 16 of 28 File: USPT Jan 12, 1999

US-PAT-NO: 5858353
DOCUMENT-IDENTIFIER: US 5858353 A
**** See image for Certificate of Correction ****

TITLE: Insect viruses, sequences, insecticidal compositions and methods

DATE-ISSUED: January 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; Lois K.	Athens	GA		
Black; Bruce C.	Yardley	PA		
Dierks; Peter M.	Yardley	PA		
Fleming; Nancy C.	Rocky Hill	NJ		

US-CL-CURRENT: 424/93.6; 435/235.1, 435/320.1, 435/348, 536/23.1, 536/23.51

ABSTRACT:

Insect viruses capable of killing at least one target insect pest quicker than previously described viruses and DNA sequence conferring that phenotype of faster killing are provided. Further improvement in the speed of killing is obtained when the virus of this invention also contains a nonfunctional egt gene to reduce feeding by the infected larvae, inhibit growth and further mediate the earlier death of the infected insect. A specifically exemplified faster-killing insect virus is the V-8 strain of AcMNPV. The faster killing phenotype is carried on a MluI to EspI fragment from 1.93 to 3.27 map units within the AcMNPV genome, and its sequence is provided herein as SEQ ID NO:3. V8vEGTDEL is the egt-inactivated derivative of AcMNPV V-8; the combination of the increased virulence of the V-8 genotype, for example, and the inactivation of the gene encoding ecdysteroid glycosyl transferase provides further improvement (as further decrease in time after infection until insect death). Additionally, such an EGT-deficient baculovirus may be still further modified to express a protein which affects ecdysis. Methods for producing the faster-killing insect virus, improved insecticidal compositions and improved methods of controlling insects are also included within the scope of this invention.

14 Claims, 17 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 17. Document ID: US 5662897 A

L2: Entry 17 of 28 File: USPT Sep 2, 1997

US-PAT-NO: 5662897
DOCUMENT-IDENTIFIER: US 5662897 A
** See image for Certificate of Correction **

TITLE: Insect viruses, sequences, insecticidal compositions and methods of use

DATE-ISSUED: September 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; Lois K.	Athens	GA		
Black; Bruce Christian	Yardley	PA		
Dierks; Peter Michael	Yardley	PA		
Fleming; Nancy C.	Yardley	PA		

US-CL-CURRENT: 424/93.2; 424/93.6, 435/235.1, 435/320.1

ABSTRACT:

Insect viruses capable of killing at least one target insect pest quicker than previously described viruses and DNA sequence conferring that phenotype of faster killing are provided. Further improvement in the speed of killing is obtained when the virus of this invention also contains a nonfunctional egt gene to reduce feeding by the infected larvae, inhibit growth and further mediate the earlier death of the infected insect. A specifically exemplified faster-killing insect virus is the V-8 strain of AcMNPV. The faster killing phenotype is carried on a MluI to EspI fragment from 1.93 to 3.27 map units within the AcMNPV genome, and its sequence is provided herein as SEQ ID NO: 3 . . . V8vEGTDEL is the egt-inactivated derivative of AcMNPV V-8; the combination of the increased virulence of the V-8 genotype, for example, and the inactivation of the gene encoding ecdysteroid glycosyl transferase provides further improvement (as further decrease in time after infection until insect death). Additionally, such an Egt-deficient baculovirus may be still further modified to express a protein which affects ecdysis. Methods for producing the faster-killing insect virus, improved insecticidal compositions and improved methods of controlling insects are also included within the scope of this invention.

7 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 18. Document ID: US 5619378 A

L2: Entry 18 of 28 File: USPT Apr 8, 1997

US-PAT-NO: 5619378
DOCUMENT-IDENTIFIER: US 5619378 A

TITLE: Field glass with additional information

DATE-ISSUED: April 8, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schwab, deceased; Kurt	late of Mils			AT

US-CL-CURRENT: 359/638; 359/428

ABSTRACT:

A field glass having means for alternatively observing additional information, an information carrier or an information deflecting means being disposed in the beam path, the information carrier or information deflecting means being disposed within the housing of the field glass and adapted to be brought into and out of the beam path between the objective and eyepiece.

2 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 19. Document ID: US 5590387 A

L2: Entry 19 of 28 File: USPT Dec 31, 1996

US-PAT-NO: 5590387
DOCUMENT-IDENTIFIER: US 5590387 A

TITLE: Method for producing metal and ceramic sintered bodies and coatings

DATE-ISSUED: December 31, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schmidt; Helmut	Saarbrucken			DE
Nass; Rudiger	Riegelsberg			DE
Aslan; Mesut	Pirmasens			DE
Albayrak; Sener	Saarbrucken			DE
Arpac; Ertugrul	Saarbrucken			DE
Konig; Theo	Laufenburg-Rotzel			DE
Fister; Dietmar	Murg			DE

US-CL-CURRENT: 419/36; 419/38

ABSTRACT:

Metal and ceramic sintered bodies and coatings are produced using a combination of:

(a) nanocrystalline metal or ceramic powder wherein less than 1% of the individual particles have a deviation of more than 40%, and no individual particles have a deviation of more than 60%, from the average grain size, and

(b) at least one low molecular-weight organic compound having at least one functional group that can react and/or interact with groups present on the surface of the powder particles, the materials (a) and (b) being dispersed in water and/or a polar organic solvent as dispersion medium.

35 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 20. Document ID: US 5525135 A

L2: Entry 20 of 28 File: USPT Jun 11, 1996

US-PAT-NO: 5525135
DOCUMENT-IDENTIFIER: US 5525135 A

TITLE: Abrasive material based on zirconium corundum a process for its production and its use

DATE-ISSUED: June 11, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moltgen; Paul	Laufenburg			DE
Gallmann; Wolfgang	Murg			DE

US-CL-CURRENT: 51/309; 451/28, 501/105, 501/87, 51/295

ABSTRACT:

The invention relates to an abrasive material based on .alpha.-Al.sub.2 O.sub.3 and ZrO.sub.2 with a content of titanium compounds in the form of suboxides, carbides and/or oxycarbides, to a process for its production and to its use.

7 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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Search Results - Record(s) 21 through 28 of 28 returned.

☐ 21. Document ID: US 5478510 A

Using default format because multiple data bases are involved.

L2: Entry 21 of 28 File: USPT Dec 26, 1995

US-PAT-NO: 5478510
DOCUMENT-IDENTIFIER: US 5478510 A

TITLE: Process for producing homogeneous structure abrasives

DATE-ISSUED: December 26, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moltgen; Paul	Laufenburg			DE
Lutte; Martin	Murg			DE
Glaisner; Karlheinz	Bad Sackingen			DE
Siebold; Herbert	Gorwihl			DE

US-CL-CURRENT: 264/39; 264/140, 264/332

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 22. Document ID: US 5389585 A

L2: Entry 22 of 28 File: USPT Feb 14, 1995

US-PAT-NO: 5389585
DOCUMENT-IDENTIFIER: US 5389585 A

TITLE: Fine non-oxide ceramic powders

DATE-ISSUED: February 14, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Konig; Theo	Laufenburg-Rotzel			DE
Fister; Dietmar	Murg-Niederhof			DE

US-CL-CURRENT: 501/87; 501/152, 501/88, 501/92

ABSTRACT:

The invention relates to fine non-oxide ceramic powders MeX, wherein

Me=B, Al, Si, Ti, Zr, Hf, V, Y, Ta, Nb, Mo, W, La, Fe, Co, Ni and/or Cr and

X=C, N, B and Si or combinations thereof, with the exception of Si.sub.3 N.sub.4 greater than 100 nm and AlN greater than 200 nm.

15 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. D

☐ 23. Document ID: US 5384306 A

L2: Entry 23 of 28 File: USPT Jan 24, 1995

US-PAT-NO: 5384306
DOCUMENT-IDENTIFIER: US 5384306 A

TITLE: Fine-particle oxide ceramic powders

DATE-ISSUED: January 24, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Konig; Theo	Laufenburg-Rotzel			DE
Fister; Dietmar	Murg-Niederhof			DE

US-CL-CURRENT: 501/152; 501/103, 501/127, 501/133

ABSTRACT:

The invention relates to fine-particle oxide ceramic powders of the metal oxides MeO, where

Me=Al, Si, Zr, Hf, Ta, Nb, Mo, W, V, La and/or Y,

Al.sub.2 O.sub.3 being present in the .alpha.-phase and SiO.sub.2 being present in crystalline form.

13 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. D

☐ 24. Document ID: US 5356120 A

L2: Entry 24 of 28 File: USPT Oct 18, 1994

US-PAT-NO: 5356120
DOCUMENT-IDENTIFIER: US 5356120 A
** See image for Certificate of Correction **

TITLE: Device for producing finely-divided metal and ceramic powder

DATE-ISSUED: October 18, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Konig; Theo	Laufenburg-Rotzel			DE
Bachle; Kurt	Murg			DE
Stein; Falk	Murg-Oberhof			DE
Ewel; Horst	Murg			DE
Rose; Volker	Laufenburg			DE
Zippenfenig; Gerd	Murg			DE
Klafki; Roland	Grafenhausen			DE

US-CL-CURRENT: 266/175; 266/202

ABSTRACT:

The invention relates to a gas phase reactor for producing finely divided metal and/or ceramic powder and comprising a gas preheater, a gas-introducing part, a flow-shaping part, a reaction tube and a product discharge device.

6 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. D

☐ 25. Document ID: US 5256611 A

L2: Entry 25 of 28 File: USPT Oct 26, 1993

US-PAT-NO: 5256611
DOCUMENT-IDENTIFIER: US 5256611 A

TITLE: Colored corundum composite and processes for its production and its use

DATE-ISSUED: October 26, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moltgen; Paul	Laufenburg			DE
Winter; Gerhard	Goslar			DE
Fister Dietmar	Murg-Niederhof			DE

US-CL-CURRENT: 501/127; 106/450, 106/451, 106/456, 106/480

ABSTRACT:

Colored corundum composite with a matrix of .alpha.-Al.sub.2 O.sub.3, as formed by sol-gel process ending in sintering and size reduction steps with addition of oxide pigments (or precursors of such oxide pigments, formable to the oxide pigment in sinter heating) added to the sol before full gelation thereof.

7 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. De

☐ 26. Document ID: US 5194073 A

L2: Entry 26 of 28 File: USPT Mar 16, 1993

US-PAT-NO: 5194073
DOCUMENT-IDENTIFIER: US 5194073 A

TITLE: Sintered composite abrasive materials, a process for its production and its use

DATE-ISSUED: March 16, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Winter; Gerhard	Vienenburg			DE
Moltgen; Paul	Laufenburg			DE
Fister; Dietmar	Murg			DE

US-CL-CURRENT: 51/309; 51/293

ABSTRACT:

Sintered composite abrasive material useful in abrasives (grinding wheels, abrasive discs and paper, etc.) and cutting tools, comprising an .alpha.-Al.sub.2 O.sub.3 matrix of sub-micron crystallite size made by sol-gel processing with a dispersed phase therein of mechanically resistant material, preferably essentially isotropic grains, added directly to the sol or gel stage of matrix formation.

11 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. De

☐ 27. Document ID: AU 2003216438 A1, WO 2003066836 A2, US 20030215927 A1

L2: Entry 27 of 28 File: DWPI Sep 2, 2003

DERWENT-ACC-NO: 2003-767259
DERWENT-WEEK: 200425

TITLE: New nucleic acid encoding UDP-glucosyltransferase, useful for preparing cells that produce p-hydroxybenzoic acid glucose ester, also the new enzymes

INVENTOR: MEYER, K; VAN DYK, D E ; VIITANEN, P V

PRIORITY-DATA: 2002US-355511P (February 7, 2002), 2003US-0359369 (February 6, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 2003216438 A1	September 2, 2003		000	C12N000/00
WO 2003066836 A2	August 14, 2003	E	161	C12N000/00
US 20030215927 A1	November 20, 2003		000	C12P019/18

INT-CL (IPC): C07 H 13/02; C07 H 21/04; C12 N 0/00; C12 N 1/21; C12 N 9/10; C12 N 15/74; C12 P 19/18; C12 P 21/02

ABSTRACTED-PUB-NO: WO2003066836A
BASIC-ABSTRACT:

NOVELTY - Isolated nucleic acid (I) that encodes a UDP-glucosyltransferase , is new.

DETAILED DESCRIPTION - Isolated nucleic acid (I) that encodes a UDP-glucosyltransferase:

(a) is a sequence (S1) that encodes a 478 (S2), 511 (S3) or 504 (S4) residue amino acid sequence, given in the specification;

(b) hybridizes to (a) under stringency conditions 0.1X saline sodium citrate (SSC), 0.1 % (sodium dodecylsulfate) SDS at 65 deg. C, and washed with 2X SSC/0.1% SDS then 0.1X SSC/0.1% SDS; or

(c) is the complement of (a) or (b); or

Alternatively, (I) encodes an enzyme with at least 75 % identity with (S2) or 72 % identity with (S3), catalyzes production of pHBA (p-hydroxybenzoic acid) ester glucoside (II) from pHBA, has at least 4.88-fold preference for pHBA over sinapic acid at 10 mM substrate concentration, and has turnover number at least 1.77 s-1 for conversion of pHBA to (II).

INDEPENDENT CLAIMS are also included for:

(1) polypeptides (II) encoded by (I);

(2) chimeric gene (CG) comprising (I) linked to regulatory sequences;

(3) host cell transformed with CG;

(4) increasing UDP-glycosyltransferase activity in microorganisms or green plant cells by transformation with sequences that encode (S2), (S3) or (S4);

(5) increasing the ratio of (II) to total pHBA glucose conjugate in pHBA-producing microorganisms or green plant cells; and

in vitro production of (II).

USE - (I) is used to transform microorganisms or green plant cells so that these produce a higher level of pHBA (p-hydroxybenzoic acid) ester glucoside (II), and for recombinant production of the encoded enzymes. (II) is an intermediate for pHBA, a monomer for liquid crystal polymers and starting material for methylparaben (preservative for foods and cosmetics). The encoded enzymes are used for in vitro production of (II) and for identifying similar enzymes by sequence comparison.

ADVANTAGE - The new enzymes direct glucose exclusively to the carboxy group of pHBA and have a high turnover rate.

☐ 28. Document ID: US 20030077803 A1, WO 200190301 A2, AU 200151467 A

L2: Entry 28 of 28 File: DWPI Apr 24, 2003

DERWENT-ACC-NO: 2002-171402
DERWENT-WEEK: 200330

TITLE: Novel composition comprising crystalline form of MurG protein, a membrane-associated UDP-glycosyltransferase involved in peptidoglycan biosynthesis, for determining ability of chemical compound to bind MurG protein

INVENTOR: HA, S; WALKER, S

PRIORITY-DATA: 2000US-204930P (May 17, 2000), 2001US-0829275 (April 9, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030077803 A1	April 24, 2003		000	C12N009/22
WO 200190301 A2	November 29, 2001	E	222	C12N000/00
AU 200151467 A	December 3, 2001		000	C12N000/00

INT-CL (IPC): C12 N 0/00; C12 N 9/22; G01 N 33/48; G01 N 33/50; G06 F 19/00

ABSTRACTED-PUB-NO: WO 200190301A
BASIC-ABSTRACT:

NOVELTY - A composition (I) comprising a MurG, preferably Escherichia coli protein in crystalline form, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a three-dimensional (3D) structure of the crystalline form of a MurG protein, preferably E. coli MurG protein, where the 3D structure conforms to the atomic coordinates given in the specification;

(2) a 3D structure (IV) of the alpha -carbon backbone of the crystalline form of an E. coli MurG protein, where the 3D structure conforms to the atomic coordinates given in the specification;

(3) a 3D structure (V) of the alpha -carbon backbone and conserved amino acid residues of an E. coli MurG protein, where the 3D structure conforms to the atomic coordinates given in the specification;

(4) 3D structure (VI) of a donor nucleotide binding site of a MurG protein, where the 3D structure of the binding site conforms to the atomic coordinates given in the specification;

(5) a 3D structure (VII) of an acceptor binding site of a MurG protein substantially conforming to the atomic coordinates given in the specification;

(6) a 3D structure (VIII) of a membrane association site of a MurG protein substantially conforming to the atomic coordinates given in the specification;

(7) a 3D computer image (IX) of (IV), (V), (VI), (VII) or (VIII);

(8) a computer readable medium (X) encoded with a set of 3D coordinates of a MurG protein, alpha -carbon backbone of a MurG protein, an alpha -carbon backbone and conserved amino acid residues of a MurG protein, a donor nucleotide binding site of a MurG protein, an acceptor binding site of a MurG protein, or a membrane association site of a MurG protein, where using a graphical display software program, the 3D coordinates create an electronic file that can be visualized on a computer capable of representing the electronic file as a 3D image;

(9) identifying (M1) a potential inhibitor of a UDP-glycosyltransferase enzyme, comprising:

(a) using a 3D structure of UDP-glycosyltransferase enzyme as defined by atomic coordinates of UDP-glycosyltransferase enzyme;

(b) employing the 3D structure to design or select the potential inhibitor;

(c) synthesizing the potential inhibitor; and

(d) contacting the potential inhibitor with the UDP-glycosyltransferase enzyme in the presence of a substrate to test the ability of the potential inhibitor to inhibit the UDP-glycosyltransferase enzyme;

(10) a model (XI) of UDP-glycosyltransferase, a donor nucleotide binding site of a UDP-glycosyltransferase (MurG) protein, an acceptor binding site of MurG protein, or membrane association site of MurG protein, where the model represents a 3D structure that conforms to the atomic coordinates given in the specification;

(11) a model (XII) of the 3D structure of a MurG protein, produced by:

(a) providing an amino acid sequence of a MurG protein an E. coli MurG protein;

(b) identifying structurally conserved regions shared between the MurG protein and the E. coli MurG protein; and

(c) determining atomic coordinates for the MurG protein by assigning the structurally conserved regions of the MurG protein to 3D structure using a 3D structure of the MurG protein which substantially conforms to the atomic coordinates given in the specification, to derive a model of the 3D structure of the MurG amino acid sequence;

(12) determining (M2) a 3D structure of a MurG protein, comprising:

(a) providing an amino acid sequence of a MurG protein, where the 3D structure of the MurG protein is not known;

(b) analyzing the pattern of folding of the amino acid sequence in a 3D conformation by fold recognition; and

(c) comparing the pattern of folding of the MurG protein amino acid sequence with the 3D structure of the E. coli MurG protein, where the 3D structure of the E. coli MurG protein conforms to the atomic coordinates given in the specification;

(13) deriving (M3) a model of 3D structure of a MurG protein, comprising:

(a) providing an amino acid sequence of a MurG protein;

(b) identifying structurally conserved regions shared between the MurG protein and the E. coli MurG protein; and

(c) determining atomic coordinates for the MurG protein structure by assigning the structurally conserved regions of the MurG protein to a 3D structure of the E. coli MurG protein based on atomic coordinates given in the specification to derive a model of the 3D structure of the MurG protein amino acid sequence; and

(14) deriving (M4) a 3D structure of a crystallized MurG protein, comprising:

(a) comparing the Patterson function of a crystallized MurG protein with the Patterson function of crystalline E. coli MurG protein to produce an electron-density map of the crystallized MurG protein; and

(b) analyzing the electron-density map to produce the 3D structure of the crystallized MurG protein.

ACTIVITY - Antibiotic; antimicrobial.

No biological data is given.

MECHANISM OF ACTION - Modulator of glycosyltransferase activity (claimed).

USE - (IX) is useful to design a compound. (XI) is useful in a computer-assisted method of structure based drug design of bioactive compounds, by providing (XI) and designing a chemical compound using (XI). The method further comprises synthesizing the chemical compound, and evaluating the bioactivity of the synthesized chemical compound. The bioactivity is selected from inhibiting binding of a nucleotide donor compound or an acceptor compound to the MurG protein, or inhibiting association of the MurG protein to a membrane. Designing the chemical compound involves computational screening of one or more database of chemical compounds in which the 3D structure of the compounds are known, and interacting a compound identified by the screening step with the model by computer. The step of designing involves directed drug design, random drug design, or grid-based drug design. Designing involves selecting compounds which are predicted to bind to or mimic the 3D structure of the MurG protein. (All claimed). (IV), (V), (VI), (VII), (VIII), (XI) or (XII) is useful to derive other MurG structures and in ligand discovery and drug discovery strategies. A modulator of glycosyltransferase is useful as antibiotics or antimicrobial agents in animals, and therapeutically or diagnostically in an animal.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

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Terms	Documents
(UDP-glycosyltransferase or murg) and crystal$10	28

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Search Results - Record(s) 1 through 20 of 31 returned.

☐ 1. Document ID: US 20040110259 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 31 File: PGPB Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110259
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040110259 A1

TITLE: Drug metabolizing enzymes

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Baugh, Mariah R	San Leandro	CA	US	
Bruns, Christopher M	Mountain View	CA	US	
Das, Debopriya	Mountain View	CA	US	
Delegeane, Angelo	Milpitas	CA	US	
Li, Ding	Creve Coeur	MO	US	
Elliott, Vicki S	San Jose	CA	US	
Gandhi, Ameena R	San Francisco	CA	US	
Griffin, Jennifer A	Fremont	CA	US	
Hafalia, April J A	Santa Clara	CA	US	
Khan, Farrah A	Des Plaines	IL	US	
Lal, Preeti G	Santa Clara	CA	US	
Lee, Sally	San Jose	CA	US	
Lu, Dyung Aina M	San Jose	CA	US	
Lu, Yan	Mountain View	CA	US	
Arvizu, Chandra S	San Jose	CA	US	
Ramkumar, Jayalaxmi	Fremont	CA	US	
Ring, Huijun Z	Foster City	CA	US	
Sanjanwala, Madhusudan M	Los Altos	CA	US	
Tang, Y Tom	San Jose	CA	US	
Thangavelu, Kavitha	Sunnyvale	CA	US	
Thornton, Michael	Oakland	CA	US	
Tribouley, Catherine M	San Francisco	CA	US	
Chawla, Narinder K	Union City	CA	US	
Warren, Bridget A	Encinitas	CA	US	
Yang, Junming	San Jose	CA	US	

Yao, Monique G	Carmel	IN	US
Yue, Henry	Sunnyvale	CA	US

US-CL-CURRENT: 435/183; 435/252.3, 435/320.1, 435/325, 435/69.1, 536/23.2, 800/8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 2. Document ID: US 20040096951 A1

L3: Entry 2 of 31 File: PGPB May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040096951
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040096951 A1

TITLE: Crystal structures of retaining glycosytransferases

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Withers, Stephen G.	Vancouver		CA	
Wakarchuk, Warren W.	Gloucester		CA	
Strynadka, Natalie C.J.	Vancouver		CA	
Dieckelmann, Manuela	Brisbane		AU	
Ly, Hoa	Kitchener Ontario		CA	
Persson, Karina	Vancouver		CA	

US-CL-CURRENT: 435/193; 435/87, 536/53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 3. Document ID: US 20040086887 A1

L3: Entry 3 of 31 File: PGPB May 6, 2004

PGPUB-DOCUMENT-NUMBER: 20040086887
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040086887 A1

TITLE: Drug metabolizing enzymes

PUBLICATION-DATE: May 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Azimzai, Yalda	Oakland	CA	US	
Baughn, Mariah R	San Leandro	CA	US	
Borowsky, Mark L	Redwood City	CA	US	

Ding, Li	Creve Coeur	MO	US
Duggan, Brendan M	Sunnyvale	CA	US
Elliott, Vicki S	San Jose	CA	US
Gandhi, Ameena R	San Francisco	CA	US
Griffin, Jennifer A	Fremont	CA	US
Hafalia, April J A	Daly City	CA	US
Ison, Craig H	San Jose	CA	US
Khan, Farrah A	Des Plaines	IL	US
Lal, Preeti G	Santa Clara	CA	US
Lee, Ernestine A	Castro Valley	CA	US
Lu, Dyung Aina M	San Jose	CA	US
Nguyen, Danniel B	San Jose	CA	US
Arvizu, Chandra S	San Jose	CA	US
Policky, Jennifer L	San Jose	CA	US
Ramkumar, Jayalaxmi	Fremont	CA	US
Ring, Huizun Z	Foster City	CA	US
Sanjanwala, Madhusudan M	San Jose	CA	US
Tang, Y Tom	San Jose	CA	US
Tribouley, Catherine M	San Francisco	CA	US
Chawla, Narinder K	Union City	CA	US
Walsh, Roderick T	Canterbury	CA	GB
Warren, Bridget A	Encinitas	CA	US
Xu, Yuming	Mountain View	CA	US
Yang, Junming	San Jose	IN	US
Yao, Monique G	Carmel	CA	US
Yue, Henry	Sunnyvale		US

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 530/388.26, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☐ 4. Document ID: US 20040086854 A1

L3: Entry 4 of 31 File: PGPB May 6, 2004

PGPUB-DOCUMENT-NUMBER: 20040086854
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040086854 A1

TITLE: Drug metabolizing enzymes

PUBLICATION-DATE: May 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yang, Junming	San Jose	CA	US	
Baughn, Mariah R	San Leandro	CA	US	
Burford, Neil	Durham	CT	US	

Au-Young, Janice	Brisbane	CA	US
Lu, Dyung Aina M	San Jose	CA	US
Reddy, Roopa	Sunnyvale	CA	US
Ring, Huijun Z	Los Altos	CA	US
Hillman, Jennifer L	Mountain View	CA	US
Yue, Henry	Sunnyvale	CA	US
Azimzai, Yalda	Castro Valley	CA	US
Yao, Monique G	Mountain View	CA	US
Gandhi, Ameena R	San Francisco	CA	US
Nguyen, Danniel B	San Jose	CA	US
Tang, Y Tom	San Jose	CA	US
Lal, Preeti	Santa Clara	CA	US
Bandman, Olga	Mountain View	CA	US

US-CL-CURRENT: 435/6; 424/94.1, 435/183, 435/320.1, 435/325, 435/69.1, 435/7.1, 530/388.26

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 5. Document ID: US 20040082061 A1

L3: Entry 5 of 31 File: PGPB Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040082061
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040082061 A1

TITLE: Drug metabolizing enzymes

PUBLICATION-DATE: April 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Astromoff, Anna	San Carlos	CA	US	
Au-Young, Janice K	Brisbane	CA	US	
Baughn, Mariah R	Los Angeles	CA	US	
Ding, Li	Creve Coeur	MO	US	
Duggan, Brendan M	Sunnyvale	CA	US	
Forsythe, Ian J	Edmonton	CA	CA	
Gietzen, Kimberly J	San Jose	CA	US	
Griffin, Jennifer A	Fremont	CA	US	
Lee, Ernestine A	Castro Valley	CA	US	
Lu, Yan	Mountain View	CA	US	
Richardson, Thomas W	Redwood City	CA	US	
Ring, Huijun Z	Foster City	CA	US	
Sanjanwala, Madhusudan M	Los Altos	CA	US	
Swarnakar, Anita	San Francisco	CA	US	
Chawla, Narinder K	Union City	CA	US	

Warren, Bridget A	San Marcos	CA	US
Xu, Yuming	Mountain View	CA	US
Yue, Henry	Sunnyvale	CA	US
Zebarjadian, Yeganeh	San Francisco		US

US-CL-CURRENT: 435/320.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 6. Document ID: US 20040081980 A1

L3: Entry 6 of 31 File: PGPB Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040081980
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040081980 A1

TITLE: Drug metabolizing enzymes

PUBLICATION-DATE: April 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sanjanwala, Madhusudan M.	Los Altos	CA	US	
Yao, Monique G.	Carmel	IN	US	
Au-Young, Janice K.	Brisbane	CA	US	
Baughn, Mariah R.	San Leandro	CA	US	
Arvizu, Chandra S.	Menlo Park	CA	US	
Ring, Huijun Z.	Los Altos	CA	US	
Lee, Ernestine A.	Albany	CA	US	
Ding, Li	Palo Alto	CA	US	
Hafalia, April J.A.	Santa Clara	CA	US	
Tang, Y. Tom	San Jose	CA	US	
Yue, Henry	Sunnyvale	CA	US	
Tribouley, Catherine M.	San Francisco	CA	US	
Lu, Dyung Aina M.	San Jose	CA	US	
Lal, Preeti G.	Santa Clara	CA	US	
Warren, Bridget A.	Cupertino	CA	US	
Yang, Junming	San Jose	CA	US	
Chawla, Narinder K.	San Leandro	CA	US	
Nguyen, Danniel B.	San Jose	CA	US	
Gandhi, Ameena R.	San Francisco	CA	US	
Lu, Yan	Palo Alto	CA	US	
Ison, Craig H.	San Jose	CA	US	

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 530/388.26, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 7. Document ID: US 20040072156 A1

L3: Entry 7 of 31 File: PGPB Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040072156
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040072156 A1

TITLE: Detection of genetic polymorphisms

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nakamura, Yusuke	Yokohama-shi		JP	
Sekine, Akihiro	Tokyo		JP	
Ilda, Aritoshi	Kawasaki-shi		JP	
Saito, Susumu	Tokyo		JP	

US-CL-CURRENT: 435/6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☐ 8. Document ID: US 20040029132 A1

L3: Entry 8 of 31 File: PGPB Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040029132
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040029132 A1

TITLE: Drug metabolizing enzymes

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yue, Henry	Sunnyvale	CA	US	
Sanjanwala, Madhusudan M.	Los Altos	CA	US	
Baughn, Mariah R.	San Leandro	CA	US	
Gandhi, Ameena R.	Menlo Park	CA	US	
Ring, Huijin Z.	Los Altos	CA	US	
Elliott, Vicki S.	San Jose	CA	US	
Chawla, Narinder K.	San Leandro	CA	US	
Yang, Junming	San Jose	CA	US	
Khan, Farrah A.	Glenview	IL	US	
Ramkumar, Jayalaxmi	Fremont	CA	US	
Tang, Y. tom	San Jose	CA	US	

Hafalia, April J.A.	Santa Clara	CA	US
Lal, Preeti G.	Santa Clara	CA	US
Nguyen, Danniel B.	San Jose	CA	US
Yao, Monique G.	Mountain View	CA	US
Lee, Ernestine A.	Albany	CA	US
Tribouley, Catherine M.	San Francisco	CA	US
Arvizu, Chandra S.	Menlo Park	CA	US
Lu, Yan	Palo Alto	CA	US
Burford, Neil	Durham	CT	US
Ding, Li	Palo Alto	CA	US
Bruns, Christopher M.	Mountain View	CA	US
Kearney, Liam	San Francisco	CA	US
Reddy, Roopa M.	Sunnyvale	CA	US

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 530/388.26, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 9. Document ID: US 20040029125 A1

L3: Entry 9 of 31 File: PGPB Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040029125
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040029125 A1

TITLE: Drug metabolizing enzymes

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Policky, Jennifer L.	San Jose	CA	US	
Hafalia, April J.A.	Santa Clara	CA	US	
Burford, Neil	Durham	CT	US	
Ring, Huijun Z.	Los Altos	CA	US	
Lal, Preeti	Santa Clara	CA	US	
Tribouley, Catherine M.	San Francisco	CA	US	
Yao, Monique G.	Mountain View	CA	US	
Yue, Henry	Sunnyvale	CA	US	
Tang, Y. Tom	San Jose	CA	US	
Avvizu, Chandra	Menlo Park	CA	US	
Das, Debopriya	Sunnyvale	CA	US	
Sanjanwala, Madhu M.	Los Altos	CA	US	
Gandhi, Ameena R.	San Francisco	CA	US	
Reddy, Roopa	Sunnyvale	CA	US	
Khan, Farrah A.	Mountain View	CA	US	
Baughn, Mariah R.	San Leandro	CA	US	

Ramkumar, Jayalaxmi	Fremont	CA	US
Griffin, Jennifer A.	Fremont	CA	US
Au-Young, Janice	Brisbane	CA	US

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 536/23.2, 800/8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 10. Document ID: US 20040002105 A1

L3: Entry 10 of 31 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002105
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040002105 A1

TITLE: Methods of identifying genes for the manipulation of triterpene saponins

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dixon, Richard A.	Ardmore	OK	US	
Achnine, Lahoucine	Ardmore	OK	US	
Suzuki, Hideyuki	Kisarazu-shi	OK	JP	
He, Xian-Zhi	Ardmore	OK	US	
Wang, Liangjiang	Ardmore		US	

US-CL-CURRENT: 435/6; 435/7.2, 800/278

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 11. Document ID: US 20040002078 A1

L3: Entry 11 of 31 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002078
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040002078 A1

TITLE: Arrays

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Boutell, Jonathan Mark	Bishop's Stortford		GB	
Godber, Benjamin Leslie James	Cambridge		GB	
Hart, Darren James	Cambridgeshire		GB	

Blackburn, Jonathan Michael Cambridge GB

US-CL-CURRENT: 435/6; 435/287.1, 435/7.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☐ 12. Document ID: US 20030224376 A1

L3: Entry 12 of 31 File: PGPB Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030224376
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030224376 A1

TITLE: Novel human transferase family members and uses thereof

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Meyers, Rachel E.	Newton	MA	US	
Williamson, Mark	Saugus	MA	US	
Leiby, Kevin R.	Natick	MA	US	
Kapeller-Libermann, Rosana	Chestnut Hill	MA	US	
Olandt, Peter J.	Newton	MA	US	
MacBeth, Kyle J.	Boston	MA	US	
Rudolph-Owen, Laura A.	Jamaica Plain	MA	US	
Tsai, Fong-Ying	Newton	MA	US	
Hunter, John J.	Somerville	MA	US	

US-CL-CURRENT: 435/6; 424/144.1, 435/320.1, 435/325, 435/69.1, 514/1, 514/12, 514/7, 530/350, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☐ 13. Document ID: US 20030215927 A1

L3: Entry 13 of 31 File: PGPB Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030215927
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030215927 A1

TITLE: UDP-glucosyltransferases

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Viitanen, Paul V.	West Chester	PA	US	

Meyer, Knut	Wilmington	DE	US
Van Dyk, Drew E.	Wilmington	DE	US

US-CL-CURRENT: 435/97; 435/193, 435/252.3, 435/252.33, 435/320.1, 435/69.1, 536/119, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 14. Document ID: US 20030175922 A1

L3: Entry 14 of 31 File: PGPB Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175922
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030175922 A1

TITLE: Beta-1,3-galactosyltransferase homologs

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Conklin, Darrell C.	Seattle	WA	US	
Yamamoto, Gayle	Seattle	WA	US	
Jaspers, Stephen R.	Edmonds	WA	US	
Gao, Zeren	Redmond	WA	US	

US-CL-CURRENT: 435/193; 435/320.1, 435/325, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 15. Document ID: US 20030143589 A1

L3: Entry 15 of 31 File: PGPB Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143589
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030143589 A1

TITLE: Drug metabolizing enzymes

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Baughn, Mariah R.	San Leandro	CA	US	
Bruns, Christopher M.	Mountain View	CA	US	
Das, Debopriya	Mountain View	CA	US	
Ding, Li	Creve Coeur	MO	US	
Elliott, Vicki S.	San Jose	CA	US	

Gandhi, Ameena R.	San Francisco	CA	US
Hafalia, April J.A.	Santa Clara	CA	US
Kearney, Liam	San Francisco	CA	US
Khan, Farrah A.	Des Plaines	IL	US
Lal, Preeti G.	Santa Clara	CA	US
Lee, Ernestine A.	Castro Valley	CA	US
Lu, Dyung Aina M.	San Jose	CA	US
Lu, Yan	Mountain View	CA	US
Nguyen, Danniel B.	San Jose	CA	US
Arvizu, Chandra S.	San Jose	CA	US
Ramkumar, Jayalaxmi	Fremont	CA	US
Ring, Huijun Z.	Foster City	CA	US
Sanjanwala, Madhusudan M.	Los Altos	CA	US
Tang, Y. Tom	San Jose	CA	US
Thangavelu, Kavitha	Sunnyvale	CA	US
Thornton, Michael B.	Oakland	CA	US
Tribouley, Catherine M.	San Francisco	CA	US
Chawla, Narinder K.	Union City	CA	US
Xu, Yuming	Mountain View	CA	US
Yang, Junming	San Jose	CA	US
Yao, Monique G.	Carmel	IN	US
Yue, Henry	Sunnyvale	CA	US

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 530/388.26, 536/23.2

☐ 16. Document ID: US 20030138895 A1

L3: Entry 16 of 31 File: PGPB Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138895
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030138895 A1

TITLE: Drug metabolizing enzymes

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tang, Y. Tom	San Jose	CA	US	
Baughn, Mariah R.	San Leandro	CA	US	
Yao, Monique G.	Mountain View	CA	US	
Bandman, Olga	Mountain View	CA	US	
Azimzai, Yalda	Castro Valley	CA	US	
Lal, Preeti	Santa Clara	CA	US	
Gandhi, Ameena R.	San Francisco	CA	US	

Ring, Huijun Z.	Los Altos	CA	US
Shih, Leo L.	Palo Alto	CA	US
Yang, Junming	San Jose	CA	US
Policky, Jennifer L.	San Jose	CA	US
Yue, Henry	Sunnyvale	CA	US

US-CL-CURRENT: 435/69.1; 435/183, 435/320.1, 435/325, 435/6, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 17. Document ID: US 20030088061 A1

L3: Entry 17 of 31 File: PGPB May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088061
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030088061 A1

TITLE: Materials and methods to modulate ligand binding/enzymatic activity of alpha/beta proteins containing an allosteric regulatory site

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Staunton, Donald E.	Kirkland	WA	US	

US-CL-CURRENT: 530/350

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 18. Document ID: US 20030087874 A1

L3: Entry 18 of 31 File: PGPB May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087874
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030087874 A1

TITLE: Antibiotic AA 896 analogs

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yamashita, Ayako	Englewood	NJ	US	
Norton, Emily Boucher	Nyack	NY	US	

US-CL-CURRENT: 514/50; 536/28.52

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 19. Document ID: US 20030077803 A1

L3: Entry 19 of 31 File: PGPB Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030077803
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030077803 A1

TITLE: Crystals of the escherichia coli membrane-associated glycosyltransferase (MurG) protein, atomic coordinates and three dimensional structures thereof, atomic coordinates and three dimensional structures of binding domains thereof, images thereof, and methods of crystallizing MurG proteins models of UDP glycosyltransferases, MurG proteins and binding sites methods of making models, methods of using models of MurG, compounds that bind, inhibit or stimulate MurG proteins, and therapeutic compositions thereof

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Walker, Suzanne	Princeton	NJ	US	
Ha, Sha	Princeton	NJ	US	

US-CL-CURRENT: 435/199; 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 20. Document ID: US 20030055235 A1

L3: Entry 20 of 31 File: PGPB Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030055235
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030055235 A1

TITLE: Active-site engineering of nucleotidylyltransferases and general enzymatic methods for the synthesis of natural and "unnatural" UDP- and TDP-nucleotide sugars

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Thorson, Jon	Madison	NY	US	
Nikilov, Dimitar B.	New York	NY	US	

US-CL-CURRENT: 536/23.2; 435/193, 435/320.1, 435/325, 435/69.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
(UDP-glycosyltransferase or murg) and crystal$10	31

Display Format: - Change Format

Previous Page Next Page Go to Doc#

Hit List

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Search Results - Record(s) 21 through 31 of 31 returned.

☐ 21. Document ID: US 20030054983 A1

Using default format because multiple data bases are involved.

L3: Entry 21 of 31 File: PGPB Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054983
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030054983 A1

TITLE: Antibiotics AA-896

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lin, Yang-I	Tappan	NY	US	
Li, Zhong	Congers	NY	US	
Francisco, Gerardo DelaCruz	Orangeburg	NY	US	
McDonald, Leonard Alexander	Mountainside	NJ	US	

US-CL-CURRENT: 514/8; 536/28.53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

☐ 22. Document ID: US 20030031681 A1

L3: Entry 22 of 31 File: PGPB Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030031681
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030031681 A1

TITLE: Combined growth factor-deleted and thymidine kinase-deleted vaccinia virus vector

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
McCart, J. Andrea	Toronto	PA	CA	
Bartlett, David L.	Pittsburgh	MD	US	

Moss, Bernard Bethesda US

US-CL-CURRENT: 424/186.1; 435/235.1, 435/456

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 23. Document ID: US 20030009298 A1

L3: Entry 23 of 31 File: PGPB Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030009298
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030009298 A1

TITLE: Field-based similarity search system and method

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pitman, Michael C.	Stamford	CT	US	
Fitch, Blake G.	White Plains	NY	US	
Horn, Hans W.	San Jose	CA	US	
Huber, Wolfgang	Murg-Niederhof	CA	DE	
Rice, Julia E.	Sunnyvale	CA	US	
Swope, William C.	Morgan Hill		US	

US-CL-CURRENT: 702/27

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 24. Document ID: US 20020197605 A1

L3: Entry 24 of 31 File: PGPB Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020197605
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020197605 A1

TITLE: Novel Polynucleotides

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nakagawa, Satoshi	Tokyo		JP	
Mizoguchi, Hiroshi	Tokyo		JP	
Ando, Seiko	Tokyo		JP	
Hayashi, Mikiro	Tokyo		JP	

Ochiai, Keiko	Tokyo	JP
Yokoi, Haruhiko	Tokyo	JP
Tateishi, Naoko	Tokyo	JP
Senoh, Akihiro	Tokyo	JP
Ikeda, Masato	Tokyo	JP
Ozaki, Akio	Hofu-shi	JP

US-CL-CURRENT: 435/6; 435/287.2, 435/91.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 25. Document ID: US 20020182692 A1

L3: Entry 25 of 31 File: PGPB Dec 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020182692
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020182692 A1

TITLE: ISOLATED HUMAN UDP-GLYCOSYLTRANSFERASE PROTEINS

PUBLICATION-DATE: December 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Webster, Marion	San Francisco	CA	US	
Wei, Ming-Hui	Germantown	MD	US	
Difrancesco, Valentina	Rockville	MD	US	
Beasley, Ellen M.	Darnestown	MD	US	

US-CL-CURRENT: 435/183; 435/320.1, 435/325, 435/69.1, 530/388.26, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 26. Document ID: US 20020156585 A1

L3: Entry 26 of 31 File: PGPB Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020156585
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020156585 A1

TITLE: Crystallization and structure determination of Staphylococcus aureus UDP-N-acetylenolpyruvylglucosamine reductase (S. aureus MurB)

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Benson, Timothy E.	Kalamazoo	MI	US	

US-CL-CURRENT: 702/19; 435/219

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 27. Document ID: US 20020120116 A1

L3: Entry 27 of 31 File: PGPB Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020120116
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020120116 A1

TITLE: ENTEROCOCCUS FAECALIS POLYNUCLEOTIDES AND POLYPEPTIDES

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
KUNSCH, CHARLES A.	ATLANTA	GA	US	
DILLON, PATRICK J.	CARLSBAD	CA	US	
BARASH, STEVEN	ROCKVILLE	MD	US	

US-CL-CURRENT: 536/23.2; 435/252.3, 435/320.1, 435/69.1, 435/70.1, 435/71.1, 530/350, 530/387.9, 800/13

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 28. Document ID: US 20020098564 A1

L3: Entry 28 of 31 File: PGPB Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098564
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020098564 A1

TITLE: Human beta-1,3-galactosyltransferase

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Conklin, Darrell C.	Seattle	WA	US	
Yamamoto, Gayle	Seattle	WA	US	
Gao, Zeren	Redmond	WA	US	
Jaspers, Stephen R.	Edmonds	WA	US	

US-CL-CURRENT: 435/193; 435/320.1, 435/325, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 29. Document ID: US 20020076740 A1

L3: Entry 29 of 31 File: PGPB Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020076740
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020076740 A1

TITLE: PROCESS FOR GLUCURONIDATION SCREENING

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
TRUBETSKOY, OLGA	MIDDLETON	WI	US	
LOWERY, ROBERT G.	Brooklyn	WI	US	

US-CL-CURRENT: 435/18

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 30. Document ID: US 20020072105 A1

L3: Entry 30 of 31 File: PGPB Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020072105
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020072105 A1

TITLE: Crystallization and structure determination of FemA and FemA-like proteins

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Benson, Timothy E.	Kalamazoo	MI	US	
Prince, Donald Bryan	Parchment	MI	US	

US-CL-CURRENT: 435/219; 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 31. Document ID: US 20010029229 A1

L3: Entry 31 of 31 File: PGPB Oct 11, 2001

PGPUB-DOCUMENT-NUMBER: 20010029229
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010029229 A1

TITLE: MOULDED SPHERICAL CERAMIC BODY, PRODUCTION PROCESS AND USE

PUBLICATION-DATE: October 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
MOELTGEN, PAUL	LAUFENBURG		DE	
WILHELM, PIRMIN	BAD SACKINGEN		DE	
LUETTE, MARTIN	MURG		DE	

US-CL-CURRENT: 501/127; 264/653, 264/662, 423/625, 423/628

Terms	Documents
(UDP-glycosyltransferase or murg) and crystal$10	31

STN SEARCH **09/829,275**

6/10/04

```
=> file .nash
=> s udp-glycosyltransferase or murg
L1          84 FILE MEDLINE
L2         170 FILE CAPLUS
L3         106 FILE SCISEARCH
L4          37 FILE LIFESCI
L5         116 FILE BIOSIS
L6          82 FILE EMBASE

TOTAL FOR ALL FILES
L7         595 UDP-GLYCOSYLTRANSFERASE OR MURG

=> s l7 and crystal?
TOTAL FOR ALL FILES
L14         57 L7 AND CRYSTAL?

=> s l14 not 2002-2004/py
TOTAL FOR ALL FILES
L21         28 L14 NOT 2002-2004/PY

=> dup rem l21
PROCESSING COMPLETED FOR L21
L22          10 DUP REM L21 (18 DUPLICATES REMOVED)

=> d ibib abs 1-10

L22  ANSWER 1 OF 10  BIOSIS  COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER:   2003:156480  BIOSIS
DOCUMENT NUMBER:    PREV200300156480
TITLE:              Roles of enzymes in antibacterial drug discovery.
AUTHOR(S):          Roychoudhury, Siddhartha [Reprint Author]
CORPORATE SOURCE:   Discovery Biology, Procter and Gamble Pharmaceuticals,
                    Mason, OH, USA
SOURCE:             Kirst, Herbert A. [Editor, Reprint Author]; Yeh, Wu-Kuang
                    [Editor]; Zmijewski, Milton Joseph Jr. [Editor]. (2001) pp.
                    245-262. Enzyme technologies for pharmaceutical and
                    biotechnological applications. print.
                    Publisher: Marcel Dekker AG, Hutgasse 4, CH-4001, Postfach
                    812, Basel, Switzerland; Marcel Dekker Inc., 270 Madison
                    Avenue, New York, NY, 10016, USA.
                    ISBN: 0-8247-0549-1 (cloth).
DOCUMENT TYPE:      Book; (Book Chapter)
LANGUAGE:           English
ENTRY DATE:         Entered STN: 26 Mar 2003
                    Last Updated on STN: 26 Mar 2003

L22  ANSWER 2 OF 10  SCISEARCH  COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER:   2001:526744  SCISEARCH
THE GENUINE ARTICLE: 444RE
TITLE:              Sequence properties of the 1,2-diacylglycerol
                    3-glucosyltransferase from Acholeplasma laidlawaii
                    membranes - Recognition of a large group of lipid
                    glycosyltransferases in eubacteria and archaea
AUTHOR:             Berg S; Edman M; Li L; Wikstrom M; Wieslander A (Reprint)
CORPORATE SOURCE:   Univ Stockholm, Dept Biochem & Biophys, S-10691 Stockholm,
                    Sweden (Reprint); Umea Univ, Dept Biochem, S-90187 Umea,
                    Sweden
COUNTRY OF AUTHOR:  Sweden
SOURCE:             JOURNAL OF BIOLOGICAL CHEMISTRY, (22 JUN 2001) Vol. 276,
                    No. 25, pp. 22056-22063.
                    Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC,
                    9650 ROCKVILLE PIKE, BETHESDA, MD 20814 USA.
                    ISSN: 0021-9258.
DOCUMENT TYPE:      Article; Journal
LANGUAGE:           English
REFERENCE COUNT:    58
                   *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
AB      Synthesis of the nonbilayer-prone alpha -monoglucosyldiacylglycerol
     (MGlcDAG) is crucial for bilayer packing properties and the lipid surface
```

charge density in the membrane of Acholeplasma laidlawii. The gene for the responsible, membrane-bound glucosyltransferase (alMGS) (EC 2.4.1.157) was sequenced and functionally cloned in Escherichia coli, yielding MGlcDAG in the re combinants. Similar amino acid sequences were encoded in the genomes of several Gram-positive bacteria (especially pathogens), thermophiles, archaea, and a few eukaryotes. Ah of these contained the typical EX7E catalytic motif of the CAZy family 4 of alpha -glycosyltransferases. The synthesis of MGlcDAG by a close sequence analog from Streptococcus pneumoniae (spMGS) was verified by polymerase chain reaction cloning, corroborating a connection between sequence and functional similarity for these proteins. However, alMGS and spMGS varied in dependence on anionic phospholipid activators phosphatidylglycerol and cardiolipin, suggesting certain regulatory differences. Fold predictions strongly indicated a similarity for alMGS land spMGS) with the two-domain structure of the E. coli **MurG** cell envelope glycosyltransferase and several amphipathic membrane binding segments in various proteins. On the basis of this structure, the alMGS sequence charge distribution, and anionic phospholipid dependence, a model for the bilayer surface binding and activity is proposed for this regulatory enzyme.

L22 ANSWER 3 OF 10 MEDLINE on STN DUPLICATE 1
ACCESSION NUMBER: 2001418433 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11470430
TITLE: Structure of the UDP-glucosyltransferase GtfB that modifies the heptapeptide aglycone in the biosynthesis of vancomycin group antibiotics.
AUTHOR: Mulichak A M; Losey H C; Walsh C T; Garavito R M
CORPORATE SOURCE: Department of Biochemistry and Molecular Biology, Michigan State University, East Lansing, MI 48824, USA.
CONTRACT NUMBER: GM49338 (NIGMS)
SOURCE: Structure (Cambridge, Mass. : 2001), (2001 Jul 3) 9 (7) 547-57.
Journal code: 101087697. ISSN: 0969-2126.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: PDB-1IIR
ENTRY MONTH: 200110
ENTRY DATE: Entered STN: 20011008
Last Updated on STN: 20011008
Entered Medline: 20011004

AB BACKGROUND: Members of the vancomycin group of glycopeptide antibiotics have an oxidatively crosslinked heptapeptide scaffold decorated at the hydroxyl groups of 4-OH-Phegly4 or beta-OH-Tyr6 with mono- (residue 6) or disaccharides (residue 4). The disaccharide in vancomycin itself is L-vancosamine-1,2-glucose, and in chloroeremomycin it is L-4-epi-vancosamine-1,2-glucose. The sugars and their substituents play an important role in efficacy, particularly against vancomycin-resistant pathogenic enterococci. RESULTS: The glucosyltransferase, GtfB, that transfers the glucose residue from UDP-glucose to the 4-OH-Phegly4 residue of the vancomycin aglycone, initiating the glycosylation pathway in chloroeremomycin maturation, has been **crystallized**, and its structure has been determined by X-ray analysis at 1.8 A resolution. The enzyme has a two-domain structure, with a deep interdomain cleft identified as the likely site of UDP-glucose binding. A hydrophobic patch on the surface of the N-terminal domain is proposed to be the binding site of the aglycone substrate. Mutagenesis has revealed Asp332 as the best candidate for the general base in the glucosyltransfer reaction. CONCLUSIONS: The structure of GtfB places it in a growing group of glycosyltransferases, including Escherichia coli **MurG** and a beta-glucosyltransferase from T4 phage, which together form a subclass of the glycosyltransferase superfamily and give insights into the recognition of the NDP-sugar and aglycone cosubstrates. A single major interdomain linker between the N- and C- terminal domains suggests that reprogramming of sugar transfer or aglycone recognition in the antibiotic glycosyltransferases, including the glycopeptide and also the macrolide antibiotics, will be facilitated by this structural information.

L22 ANSWER 4 OF 10 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 2001:719430 SCISEARCH

THE GENUINE ARTICLE: 470NK
TITLE: Biochemical characterization of the beta-1,4-glucuronosyltransferase GelK in the gellan gum-producing strain Sphingomonas paucimobilis ATCC 31461
AUTHOR: Videira P; Fialho A; Geremia R A (Reprint); Breton C; Sa-Correia I
CORPORATE SOURCE: Univ Grenoble 1, Bat CERMO, 460 Rue Piscine, F-38041 Grenoble 9, France (Reprint); Univ Grenoble 1, F-38041 Grenoble 9, France; CNRS, FRE 2383, F-38041 Grenoble, France; Inst Super Tecn, Ctr Engn Biol & Quim, P-1049001 Lisbon, Portugal; CNRS, Ctr Rech Macromol Vegetales, F-38041 Grenoble, France
COUNTRY OF AUTHOR: France; Portugal
SOURCE: BIOCHEMICAL JOURNAL, (1 SEP 2001) Vol. 358, Part 2, pp. 457-464.
Publisher: PORTLAND PRESS, 59 PORTLAND PLACE, LONDON W1N 3AJ, ENGLAND.
ISSN: 0264-6021.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 37

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB Biosynthesis of bacterial polysaccharide-repeat units proceeds by sequential transfer of sugars, from the appropriate sugar donor to an activated lipid carrier, by committed glycosyltransferases (GTs). Few studies on the mechanism of action for this type of GT are available. Sphingomonas paucimobilis A.T.C.C. 31461 produces the industrially important polysaccharide gellan gum. We have cloned the gelK gene from S. paucimobilis A.T.C.C. 31461. GelK belongs to family 1 of the GT classification [Campbell, Davies, Bulone, Henrissat (1997) Biochem. J. 326, 929-939]. Sequence similarity studies suggest that GelK consists of two protein modules corresponding to the -NH2 and -CO2H halves, the latter possibly harbouring the GT activity. The gelK gene and the open reading frames coding for the -NH2 (GelK(NH2)) and -CO2H (GelK(COOH)) halves were overexpressed in Escherichia coli. GelK and GelK(NH2) were present in both the soluble and membrane fractions of E. coli, whereas GelK(COOH) was only present in the soluble fraction. GelK catalysed the transfer of [C-14]glucuronic acid from UDP-[C-14]glucuronic acid into a glycolipid extracted from S. paucimobilis or E. coli, even in the presence of EDTA, and the radioactive sugar was released from the glycolipid by beta -1,4-glucuronidase. GelK was not able to use synthetic glucosyl derivatives as acceptors, indicating that the PPi-lipid moiety is needed for enzymic activity. Recombinant GelK(NH2) and GelK(COOH) did not show detectable activity. Based on the biochemical characteristics of GelK and on sequence similarities with N-acetylglucosaminyltransferase, we propose that GT families 1 and 28 form a superfamily.

L22 ANSWER 5 OF 10 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 2001:993987 SCISEARCH
THE GENUINE ARTICLE: 500HT
TITLE: Homology between O-linked GlcNAc transferases and proteins of the glycogen phosphorylase superfamily
AUTHOR: Wrabl J O; Grishin N V (Reprint)
CORPORATE SOURCE: Univ Texas, Howard Hughes Med Inst, SW Med Ctr, 5323 Harry Hines Blvd, Dallas, TX 75390 USA (Reprint); Univ Texas, Howard Hughes Med Inst, SW Med Ctr, Dallas, TX 75390 USA; Univ Texas, Dept Biochem, SW Med Ctr, Dallas, TX 75390 USA
COUNTRY OF AUTHOR: USA
SOURCE: JOURNAL OF MOLECULAR BIOLOGY, (30 NOV 2001) Vol. 314, No. 3, pp. 365-374.
Publisher: ACADEMIC PRESS LTD, 24-28 OVAL RD, LONDON NW1 7DX, ENGLAND.
ISSN: 0022-2836.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 44

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB The O-linked GlcNAc transferases (OGTs) are a recently characterized group of largely eukaryotic enzymes that add a single beta -N-acetylglucosamine moiety to specific serine or threonine hydroxyls. In humans, this process may be part of a sugar regulation mechanism or

cellular signaling pathway that is involved in many important diseases, such as diabetes, cancer, and neurodegeneration. However, no structural information about the human OGT exists, except for the identification of tetratricopeptide repeats (TPR) at the N terminus. The locations of substrate binding sites are unknown and the structural basis for this enzyme's function is not clear. Here, remote homology is reported between the OGTs and a large group of diverse sugar processing enzymes, including proteins with known structure such as glycogen phosphorylase, UDP-GlcNAc 2-epimerase, and the glycosyl transferase **MurG**. This relationship, in conjunction with an-Lino acid similarity spanning the entire length of the sequence, implies that the fold of the human OGT consists of two Rossmann-like domains C-terminal to the TPR region. A conserved motif in the second Rossmann domain points to the UDP-GlcNAc donor binding site. This conclusion is supported by a combination of statistically significant PSI-BLAST hits, consensus secondary structure predictions, and a fold recognition hit to **MurG**. Additionally, iterative PSI-BLAST database searches reveal that proteins homologous to the OGTs form a large and diverse superfamily that is termed GPGTF (glycogen phosphorylase/glycosyl transferase). Up to one-third of the 51 functional families in the CAZY database, a glycosyl transferase classification scheme based on catalytic residue and sequence homology considerations, can be unified through this common predicted fold. GPGTF homologs constitute a substantial fraction of known proteins: 0.4% of all non-redundant sequences and about 1% of proteins in the Escherichia coli genome are found to belong to the GPGTF superfamily. (C) 2001 Academic Press.

L22 ANSWER 6 OF 10 MEDLINE on STN DUPLICATE 2
ACCESSION NUMBER: 2002694676 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12455415
TITLE: E. Coli **MurG**: a paradigm for a superfamily of glycosyltransferases.
AUTHOR: Ha S; Gross B; Walker S
CORPORATE SOURCE: Chemistry Department, Princeton University, Princeton, NJ 08544, USA.
SOURCE: Current drug targets. Infectious disorders, (2001 Aug) 1 (2) 201-13. Ref: 72
Journal code: 101128002. ISSN: 1568-0053.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200212
ENTRY DATE: Entered STN: 20021214
Last Updated on STN: 20021217
Entered Medline: 20021212

AB **MurG** is an essential bacterial glycosyltransferase that is involved in the biosynthesis of peptidoglycan. The enzyme is found in all organisms that synthesize peptidoglycan and is a target for the design of new antibiotics. A direct assay to study **MurG** was reported recently, followed shortly by the **crystal** structure of E. coli **MurG**. This first **MurG** structure, combined with sequence data on other glycosyltransferases, has revealed that **MurG** is a paradigm for a large family of metal ion-independent glycosyltransferases found in both eukaryotes and prokaryotes. A better understanding of **MurG** could lead to the development of new drugs to combat antibiotic resistant infections, and may also shed light on a broad class of glycosyltransferases.

L22 ANSWER 7 OF 10 MEDLINE on STN DUPLICATE 3
ACCESSION NUMBER: 2001098555 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11001941
TITLE: Identification of essential amino acids in the bacterial alpha -mannosyltransferase aceA.
AUTHOR: Abdian P L; Lellouch A C; Gautier C; Ielpi L; Geremia R A
CORPORATE SOURCE: Instituto de Investigaciones Bioquimicas Fundacion Campomar, Facultad de Ciencias Exactas y Naturales, y Consejo Nacional de Investigaciones Cientificas y Tecnicas, Avenida Patricias Argentinas 435, 1045 Buenos Aires,

Argentina.
SOURCE: Journal of biological chemistry, (2000 Dec 22) 275 (51) 40568-75.
Journal code: 2985121R. ISSN: 0021-9258.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200102
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20010201

AB The alpha-mannosyltransferase AceA from Acetobacter xylinum belongs to the CaZY family 4 of retaining glycosyltransferases. We have identified a series of either highly conserved or invariant residues that are found in all family 4 enzymes as well as other retaining glycosyltransferases. These residues included Glu-287 and Glu-295, which comprise an EX(7)E motif and have been proposed to be involved in catalysis. Alanine replacements of each conserved residue were constructed by site-directed mutagenesis. The mannosyltransferase activity of each mutant was examined by both an in vitro transferase assay using recombinant mutant AceA expressed in Escherichia coli and by an in vivo rescue assay by expressing the mutant AceA in a Xanthomonas campestris gumH(-) strain. We found that only mutants K211A and E287A lost all detectable activity both in vitro and in vivo, whereas E295A retained residual activity in the more sensitive in vivo assay. H127A and S162A each retained reduced but significant activities both in vitro and in vivo. Secondary structure predictions of AceA and subsequent comparison with the **crystal** structures of the T4 beta-glucosyltransferase and **MurG** suggest that AceA Lys-211 and Glu-295 are involved in nucleotide sugar donor binding, leaving Glu-287 of the EX(7)E as a potential catalytic residue.

L22 ANSWER 8 OF 10 MEDLINE on STN DUPLICATE 4
ACCESSION NUMBER: 2001019384 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10892798
TITLE: The 1.9 A **crystal** structure of Escherichia coli **MurG**, a membrane-associated glycosyltransferase involved in peptidoglycan biosynthesis.
AUTHOR: Ha S; Walker D; Shi Y; Walker S
CORPORATE SOURCE: Department of Chemistry, Princeton University, New Jersey 08544, USA.
SOURCE: Protein science : a publication of the Protein Society, (2000 Jun) 9 (6) 1045-52.
Journal code: 9211750. ISSN: 0961-8368.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: PDB-1F0K
ENTRY MONTH: 200011
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001103

AB The 1.9 A X-ray structure of a membrane-associated glycosyltransferase involved in peptidoglycan biosynthesis is reported. This enzyme, **MurG**, contains two alpha/beta open sheet domains separated by a deep cleft. Structural analysis suggests that the C-terminal domain contains the UDP-GlcNAc binding site while the N-terminal domain contains the acceptor binding site and likely membrane association site. Combined with sequence data from other **MurG** homologs, this structure provides insight into the residues that are important in substrate binding and catalysis. We have also noted that a conserved region found in many UDP-sugar transferases maps to a beta/alpha/beta/alpha supersecondary structural motif in the donor binding region of **MurG**, an observation that may be helpful in glycosyltransferase structure prediction. The identification of a conserved structural motif involved in donor binding in different UDP-sugar transferases also suggests that it may be possible to identify--and perhaps alter--the residues that help determine donor specificity.

L22 ANSWER 9 OF 10 MEDLINE on STN DUPLICATE 5

ACCESSION NUMBER: 2000502270 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11042447
TITLE: Glycosyltransferase structure and mechanism.
AUTHOR: Unligil U M; Rini J M
CORPORATE SOURCE: Departments of Molecular and Medical Genetics and Biochemistry, University of Toronto, Ontario, M5S 1A8, Toronto, Canada.
SOURCE: Current opinion in structural biology, (2000 Oct) 10 (5) 510-7. Ref: 47
Journal code: 9107784. ISSN: 0959-440X.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200011
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001107

AB The high-resolution X-ray **crystal** structures of a new form of bacteriophage T4 beta-glucosyltransferase, Escherichia coli **MurG**, Bacillus subtilis SpsA, bovine beta-1,4-galactosyltransferase 1 and rabbit N-acetylglucosaminyltransferase I have now been solved. These glycosyltransferase structures have provided the first detailed view of the structural basis of catalysis, as well as new insight into glycosyltransferase classification.

L22 ANSWER 10 OF 10 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 1999:750130 SCISEARCH
THE GENUINE ARTICLE: 240DC
TITLE: The kinetic characterization of Escherichia coli **MurG** using synthetic substrate analogues
AUTHOR: Ha S; Chang E; Lo M C; Men H; Park P; Ge M; Walker S (Reprint)
CORPORATE SOURCE: PRINCETON UNIV, DEPT CHEM, PRINCETON, NJ 08544 (Reprint); PRINCETON UNIV, DEPT CHEM, PRINCETON, NJ 08544
COUNTRY OF AUTHOR: USA
SOURCE: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, (22 SEP 1999) Vol. 121, No. 37, pp. 8415-8426.
Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036.
ISSN: 0002-7863.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: PHYS; LIFE
LANGUAGE: English
REFERENCE COUNT: 88

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB Bacterial resistance to existing antibiotics poses a serious threat to human health. Because the peptidoglycan layer surrounding bacterial cells is essential for survival, the enzymes involved in peptidoglycan biosynthesis are attractive targets for the design of new antibiotics. Unfortunately, many of these enzymes are difficult to study because substrates to monitor enzymatic activity are either not available or not soluble under suitable assay conditions. These problems can be solved by utilizing synthetic alternative substrates. We recently reported the synthesis of a soluble substrate analogue for **MurG**, the enzyme that forms the beta-(1,4)-N-acetylglucosaminyl-N-acetylmuramyl pentapeptide subunit of peptidoglycan. Using this substrate analogue, we have been able to develop a direct assay to monitor the activity of the enzyme. We-now report the purification of Escherichia coil **MurG** and information on its kinetic properties and substrate requirements in the absence of membranes. This work lays the foundation for detailed mechanistic and structural investigations of this essential bacterial enzyme.

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